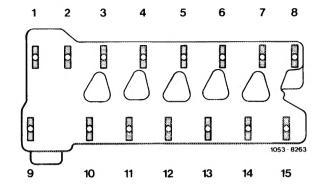
Data															
Mean roughness of camshaft bearing journal  Deviation of camshaft bearing journal from true when mounted at camshaft sprocket seat and rear camshaft bearing journal  Deviation of camshaft bearing journal from true						0.005 0.030 0.010									
								Bearing points (fig., refer to note)		1, 9	2	3, 10, 11	4,5,12,13	6,7,14,15	8
								Standard dimension	bearing dia.	38.016 38.000	50.066 50.050	50.016 50.000	51.519 51.500	53.019 53.000	54.019 54.000
journal dia.	23.993 23.980	49.950 49.934	49.950 49.934	<u>51.440</u> 51.421	52.940 52.921	53.940 53.921									
Intermediate stage  -0.1 mm (exchange engines)	bearing dia.		49.966 49.950	49.916 49.900	<u>51.419</u> 51.400	52.919 52.900	53.919 53.900								
	journal dia.		49.850 49.834	49.850 49.834	<u>51.340</u> 51.321	52.840 52.821	53.840 53.821								
1st repair stage —0.25 mm	bearing dia.		49.816 49.800	49.765 49.750	<u>51.269</u> 51.250	52.769 52.750	<u>53.769</u> 53.750								
	journal dia.		49.700 49.684	49.700 49.684	<u>51.190</u> 51.171	<u>52.690</u> 52.671	<u>53.690</u> 53.671								
2nd repair stage —0.5 mm	bearing dia.		49.566 49.550	49.516 49.500	<u>51.019</u> 51.000	<u>52.519</u> 52.500	53.519 53.500								
	journal dia.		49.450 49.434	49.450 49.434	50.940 50.921	<u>52.440</u> 52.421	53.440 53.421								
Camshaft bearing play	radial	0.057 0.124	0.100 0.132	0.050 0.082	0.060 0.098	0.060 0.098	0.060 0.098								
	a×ial	0.050 0.120													
Sleeve for bearing a	OD	37.950 37.925	ID	24.013 24.000											
Special tool															
Dial gauge holder for camshaft axial play			DELO PODI			136 589 04 21 00									

## Note

For camshafts with reground bearing journals, camshaft housings with repair stages -0.25 mm and -0.50 mm are available.

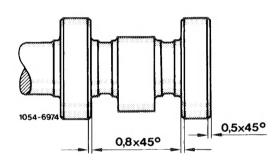
The bearing journals are not hardened.



Some exchange engines are delivered with camshaft bearings in intermediate and repair sizes. This means that a standard camshaft cannot be installed in this camshaft housing, since the bearing journals are larger in diameter than the bearings.

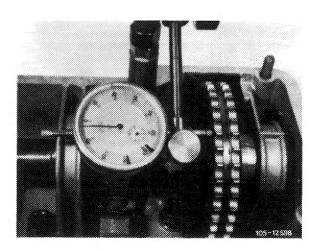
Also refer to coordination camshaft housing and camshafts (01–471).

Chamfer bearing journals after grinding (see sketch for dimensions).



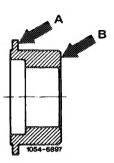
## Checking axial play

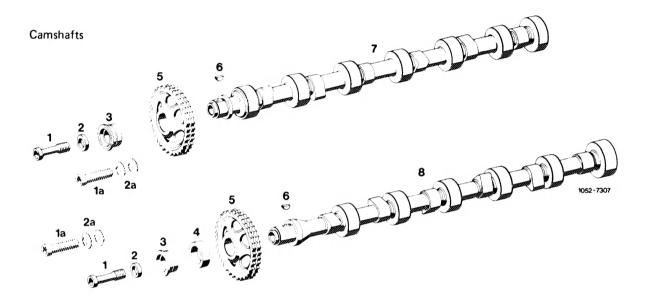
- 1 Bolt dial gauge holder to camshaft housing.
- 2 Clamp dial gauge with a preload of about 3 mm.
- 3 Press back camshaft and set needle at 0.
- 4 Press camshaft forward and read axial play.



Note: If the end play is too small, grind spacing sleeve or driver at face B as required.

If the axial play is too large, the spacer or dog must be ground at collar A.





- 2 expansion bolts 2nd version 2 bolts 1st version (not valid) 2 washers 2nd version 4 washers 1st version (not valid) 2 spacers

- 4 Spacer
  5 2 camshaft sprockets
  6 2 woodruff keys 4 x 6.5
  7 Exhaust camshaft
  8 Intake camshaft